

## TWO-HOP TELEMETRY INTERFACE FOR MEDICAL DEVICE

### ABSTRACT

This document discusses a system that includes an intermediary telemetry  
5 interface device for communicating between a cardiac rhythm management system  
or other implantable medical device and a programmer or other remote device. One  
example provides an inductive near-field communication link between the telemetry  
interface and the implantable medical device, and a radio-frequency (RF) far-field  
communication link between the telemetry interface device and the remote device.  
10 The telemetry interface device provides data buffering. In another example, the  
telemetry interface device includes a data processing module for compressing and/or  
decompressing data, or for extracting information from data. Such information  
extraction may include obtaining heart rate, interval, and/or depolarization  
morphology information from an electrogram signal received from the implantable  
15 medical device.

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